

Notice of Allowability

Application No.

09/934,313

Examiner

Thomas E. Shortledge

Applicant(s)

WANG, YEYI

Art Unit

2654

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Remarks filed on 05/02/2005.
2. ☒ The allowed claim(s) is/are 1, 9-11 and 15-17.
3. ☒ The drawings filed on 21 August 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

1. This communication is in response to Remarks filed on 05/02/2005.
2. Claims 2-8, 12-14, and claims 18-29 have been cancelled. Claims 1, 9, 10, 11, 15, 16, and 17 have been amended. Claims 1 and 11 are independent.
3. The rejections to claims 1, 11, 16 and 17 have been withdrawn in accordance with the applicants' amendments.
4. The objections to claims 9-10 and 15 have been withdrawn in accordance with the applicants' amendments.

Allowable Subject Matter

5. Claims 1, 9-11, and 15-17 are allowed.
6. The following is an examiner's statement of reasons for allowance:

Claim 1 recites modifying a grammar in a semantic parser by deleting a non-terminal through by determining that the non-terminal is defined at least in part by a child semantic entity that does not define another non-terminal in the semantic description language grammar, and deleting the child semantic entity based on the determination.

The prior art of record teach modifying the rules within a grammar, by turning the rules on and off through an enabling condition. However, the prior art or record does

not teach nor fairly suggest finding the child nodes, and deleting the non-terminal based on the definitions of the child node.

Claim 11 recites receiving an instruction to change a non-terminal in a semantic description language grammar used in semantic parsing of text; accessing a stored grammar formed through the combination of a context-free grammar that links text to semantic non-terminals and the semantic description language grammar that links semantic non-terminals to each other; and changing the stored grammar based on the received instruction by changing a non-terminal in the semantic description language grammar and an non-terminal in the context-free grammar.

The prior art of record teach modifying the rules within a grammar used in parsing a text, the rules are modified by turning them on and off through an enabling condition. However, the prior art of record does not teach deleting a non-terminal from both the semantic description language, and the context-free grammar.

Claims 9, 10, 15-17 are allowable since they are dependent on allowable subject matter.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas E. Shortledge whose telephone number is (571)272-7612. The examiner can normally be reached on M-F 8:00 - 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richemond Dorvil can be reached on (571)272-7602. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TS
08/04/2005


RICHEMOND DORVIL
SUPERVISORY PATENT EXAMINER